

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	228	74/586	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L2	202	L1 and (connecting or rod or connector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L3	368	123/197.4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L4	122	L3 and adjust\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L5	264	123/197.3	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L6	83	L5 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L7	2067	74/579R.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L8	274	L7 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L9	96	L8 and crank\$8	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L10	1254	74/586.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L11	332	L10 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L12	107	L11 and crank\$7	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46

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L13	207	123/197.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L14	470	123/197.4.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L15	123	L14 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L16	122	L15 and crank\$8	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L17	200	crank\$6 with angle with adjust\$4 with slot	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L18	5	crank\$6 with angle with adjust\$4 with slot with piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L19	11	L17 same piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L20	1953	crankshaft near5 coupling	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L21	217	L20 with piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L22	95	L21 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L23	1165	123/197.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L24	131	L23 and adjust\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L25	48	L24 and (slot or slit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L26	503	123/48B.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46

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L27	347	L26 and piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L28	98	L27 and (slit or slot)	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L29	67	L28 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L30	503	123/48B.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L31	14	L30 and (arc\$4 with (slot or slit or void or recess or gap or hole))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L32	1107	123/197.4,197.3,48B.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L33	457	L32 and ((adjust\$4 or chang\$4 or vary\$4 or alternat\$3) with (stroke or displacement or "connecting rod" or "connecting rod" or length))	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/26 06:46
L34	361	74/593.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L35	73	L34 and (stroke or displacement)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L36	1	L34 and (variable with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L37	1562	74/600,601,602.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L38	165	L37 and ((variable or alternat\$3 or chang\$3) with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46

## EAST Search History

L39	125	L38 and (groove or slot or recess or cavity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L40	771	74/595.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L41	29	L40 and ((variable or alternat\$3 or chang\$3) with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L42	861	74/594.1,594.3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L43	35	L42 and ((variable or alternat\$3 or chang\$3) with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:46
L44	1439	L2 L4 L6 L9 L12 L13 L16 L18 L19 L22 L25 L29 L31 L33 L36 L35 L38 L39 L41 L43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:49
L45	19	44 and @pd>"20060705"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:55
L46	136	((((crankshaft near3 coupling) or (connecting adj rod)) and eccentricity).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:56
L47	49	((((crankshaft near3 coupling) or (connecting adj rod)) and eccentricity and reciproc\$5).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/10/26 06:56
S1	226	74/586	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/05 11:20

## EAST Search History

S2	200	S1 and (connecting or rod or connector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 11:26
S3	351	123/197.4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/05 11:20
S4	116	S3 and adjust\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/05 11:21
S5	28	("1278563"   "1326129"   "1326733"   "1786423"   "1964096"   "2394269"   "3686972"   "3861239"   "4044629"   "4152955"   "5040502"   "5060603"   "5158047"   "5165368"   "5170757"   "5465648").PN. OR ("5927236").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:33
S6	17	("1111252"   "1572918"   "2433639"   "2589958"   "2897804"   "4240386"   "4738230"   "4860702"   "5136987").PN. OR ("5201287").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 11:46
S7	30	("1476309"   "1987661"   "2060221"   "3180178"   "4301695"   "4406257"   "5002023").PN. OR ("5165368").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:06
S8	254	123/197.3	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:06
S9	79	S8 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:12
S10	11	MEYER-SIEGFRIED.in.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:50
S11	14	74/579.00R	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:50
S12	132	74/579	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:55

## EAST Search History

S13	0	74/579.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:55
S14	2064	74/579R.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:55
S15	0	74/579.00R.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:55
S16	272	S14 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:56
S17	94	S16 and crank\$8	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:58
S18	1254	74/586.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:59
S19	332	S18 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 12:59
S20	107	S19 and crank\$7	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:02
S21	205	123/197.3.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:41
S22	459	123/197.4.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:41
S23	119	S22 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:41
S24	118	S23 and crank\$8	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:42
S25	0	S24 and angl	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:42
S26	84	S24 and angle	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:45
S27	200	crank\$6 with angle with adjust\$4 with slot	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:50

## EAST Search History

S28	5	crank\$6 with angle with adjust\$4 with slot with piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:46
S29	11	S27 same piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 13:50
S30	30	("0241714"   "0288007"   "0451283"   "1508614"   "1601655"   "2277231"   "3142852"   "3534621"   "4074530").PN. OR ("4339960").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:01
S31	13914	crankshaft and coupling	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:02
S32	1912	crankshaft near5 coupling	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:02
S33	381	S32 same piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:02
S34	212	S32 with piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:02
S35	92	S34 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:04
S36	17	("1111252"   "1572918"   "2433639"   "2589958"   "2897804"   "4240386"   "4738230"   "4860702"   "5136987").PN. OR ("5201287").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/05 14:44
S37	1154	123/197.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/07 07:09
S38	127	S37 and adjust\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/07 07:10
S39	47	S38 and (slot or slit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/07 07:11

## EAST Search History

S40	0	123/47.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/07 07:11
S41	0	123/48.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/07 07:11
S42	47	123/48	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:12
S43	499	123/48B.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:13
S44	343	S43 and piston	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:13
S45	98	S44 and (slit or slot)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:13
S46	67	S45 and adjust\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:13
S47	11	("1309917"   "4830517"   "4834031"   "4926810"   "6336441"   "6394047"   "6412453"   "6499446"   "6510821"   "6516757").PN. OR ("6976456"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:15
S48	30	("1476309"   "1987661"   "2060221"   "3180178"   "4301695"   "4406257"   "5002023").PN. OR ("5165368").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:18
S49	17	("1987661"   "2433639"   "3703839"   "3861239"   "4240386"   "4738230"   "5136987"   "5146879"   "5156121"   "5163386"   "5165368"   "5201287"   "5335632"   "5406911").PN. OR ("5724935").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 07:22
S50	14	("1539769"   "2356033"   "4370901"   "5136987"   "5146884"   "5215051"   "5279268").PN. OR ("5406911").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 08:39
S51	499	123/48B.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 08:39



## EAST Search History

S52	14	S51 and (arc\$4 with (slot or slit or void or recess or gap or hole))	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 08:43
S53	12	("3695150"   "3908623"   "4254743"   "4463710"   "4584972"   "4791898"   "5115725"   "5156121"   "5413074"   "5427067"   "5794582").PN. OR ("6651607").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 08:45
S54	22	("2194022"   "3859976"   "3908623").PN. OR ("4463710").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 11:06
S55	0	123/197.4,197	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 11:07
S56	1092	123/197.4,197.3,48B.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 11:06
S57	612	S56 and stroke	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 11:07
S58	450	S56 and ((adjust\$4 or chang\$4 or vary\$4 or alternat\$3) with (stroke or displacement or "connecting rod" or "connecting rod" or length))	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 11:11
S59	22	("1783589"   "1978058"   "2151853"   "2340010"   "4044629"   "4152955"   "4211190"   "4437438"   "4466403"   "4467756"   "4712518"   "4803964").PN. OR ("5060603").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 11:43
S60	22	("1783589"   "1978058"   "2151853"   "2340010"   "4044629"   "4152955"   "4211190"   "4437438"   "4466403"   "4467756"   "4712518"   "4803964").PN. OR ("5060603").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/07 12:31
S61	360	74/593.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:27
S62	73	S61 and (stroke or displacement)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:29

## EAST Search History

S63	1	S61 and (variable with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:28
S64	1562	74/600,601,602.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:29
S65	165	S64 and ((variable or alternat\$3 or chang\$3) with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:36
S66	125	S65 and (groove or slot or recess or cavity)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:33
S67	277	74/595	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:33
S68	768	74/595.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:33
S69	29	S68 and ((variable or alternat\$3 or chang\$3) with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:34
S70	854	74/594.1,594.3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:36
S71	35	S70 and ((variable or alternat\$3 or chang\$3) with (stroke or displacement))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/07/10 10:36